

Fig.1

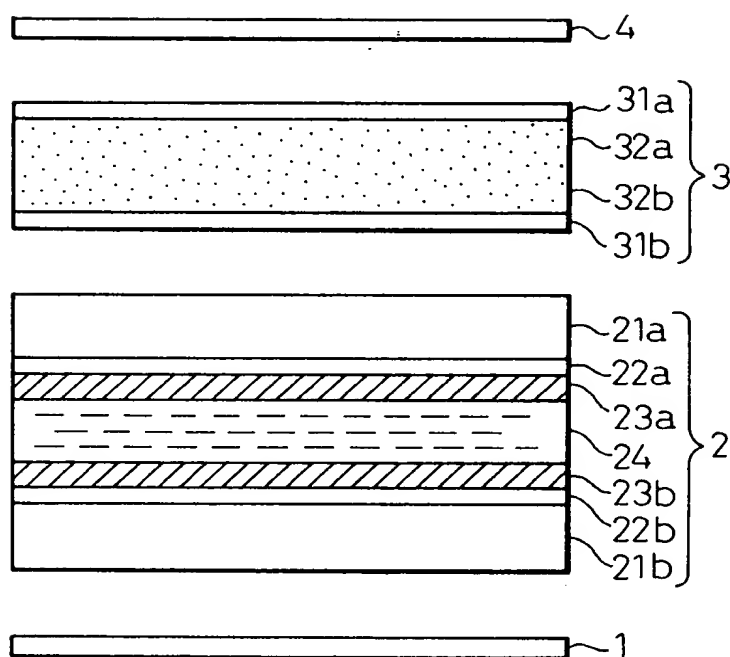


Fig.2

EXPERIMENT NUMBER	1	2	3	4	5	6	7
UPPER (SECOND) POLARIZATION BOARD	+35° ~ +75°	+35° ~ +75°	+35° ~ +75°	+35° ~ +75°	+50°	+50°	+40°
UPPER POLYMER MOLECULE	-70°	-80°	-80°	-80°	-80°	-80°	-100°
LOWER POLYMER MOLECULE	+70°	+60°	+60°	+60°	+60°	+60°	+60°
UPPER LIQUID CRYSTAL MOLECULE	-30°	-30°	-30°	-30°	-30°	-30°	-30°
LOWER LIQUID CRYSTAL MOLECULE	+30°	+30°	+30°	+30°	+30°	+30°	+30°
LOWER (FIRST) POLARIZATION BOARD	-15°	-15°	-15°	-15°	-5° ~ -25°	-10°	-15°

Fig.3

EXPERIMENT NUMBER		FINAL 1	FINAL 2	FINAL 3
UPPER (SECOND) POLARIZATION BOARD		+45°	-45°	+90°
TWISTED PHASE DIFFER- -ENCE BOARD	UPPER POLYMER MOLECULE	-85°	-85°	+50°
	LOWER POLYMER MOLECULE	+55°	+55°	+10°
LIQUID CRYSTAL CELL	UPPER LIQUID CRYSTAL MOLECULE	-30°	-30°	-75°
	LOWER LIQUID CRYSTAL MOLECULE	+30°	+30°	-15°
LOWER (FIRST) POLARIZATION BOARD		- 5 °	+85°	+40°

Fig.4

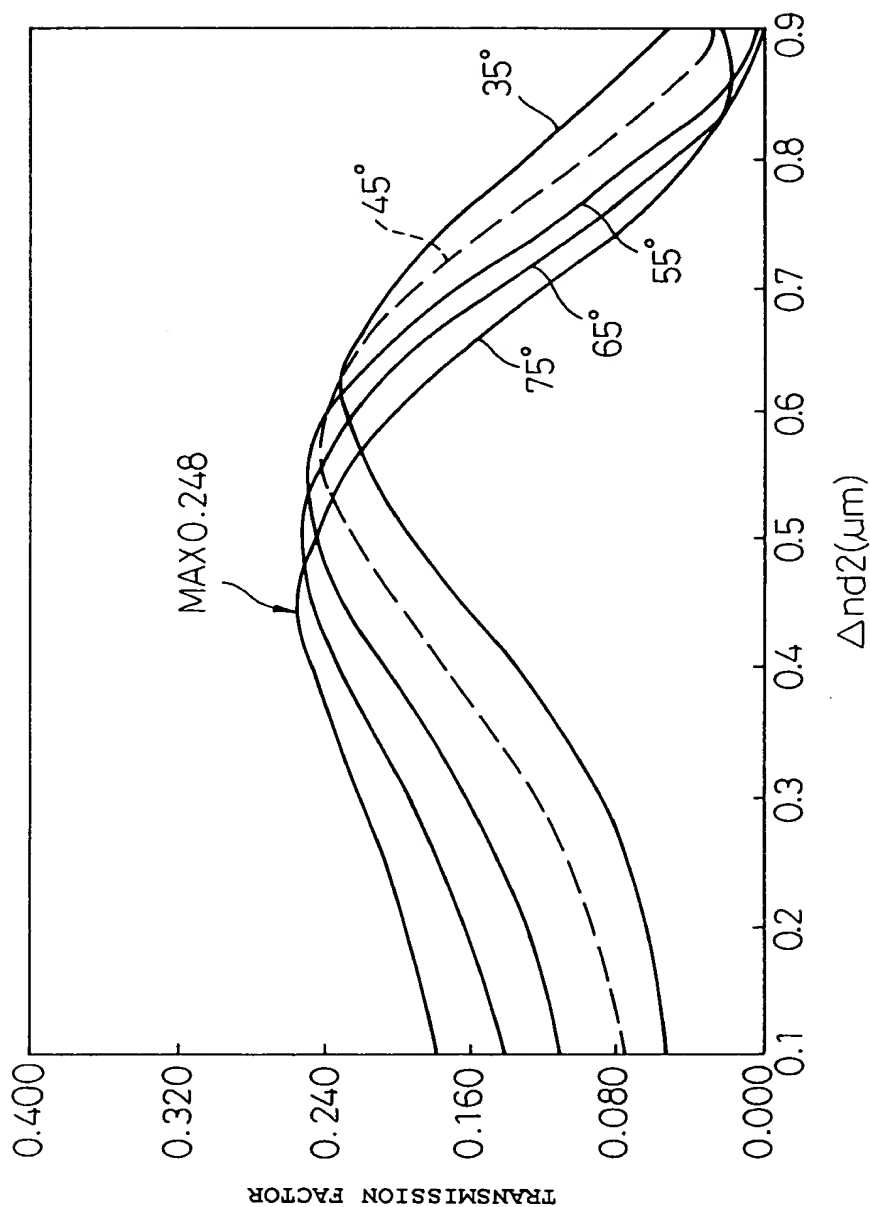


Fig.5

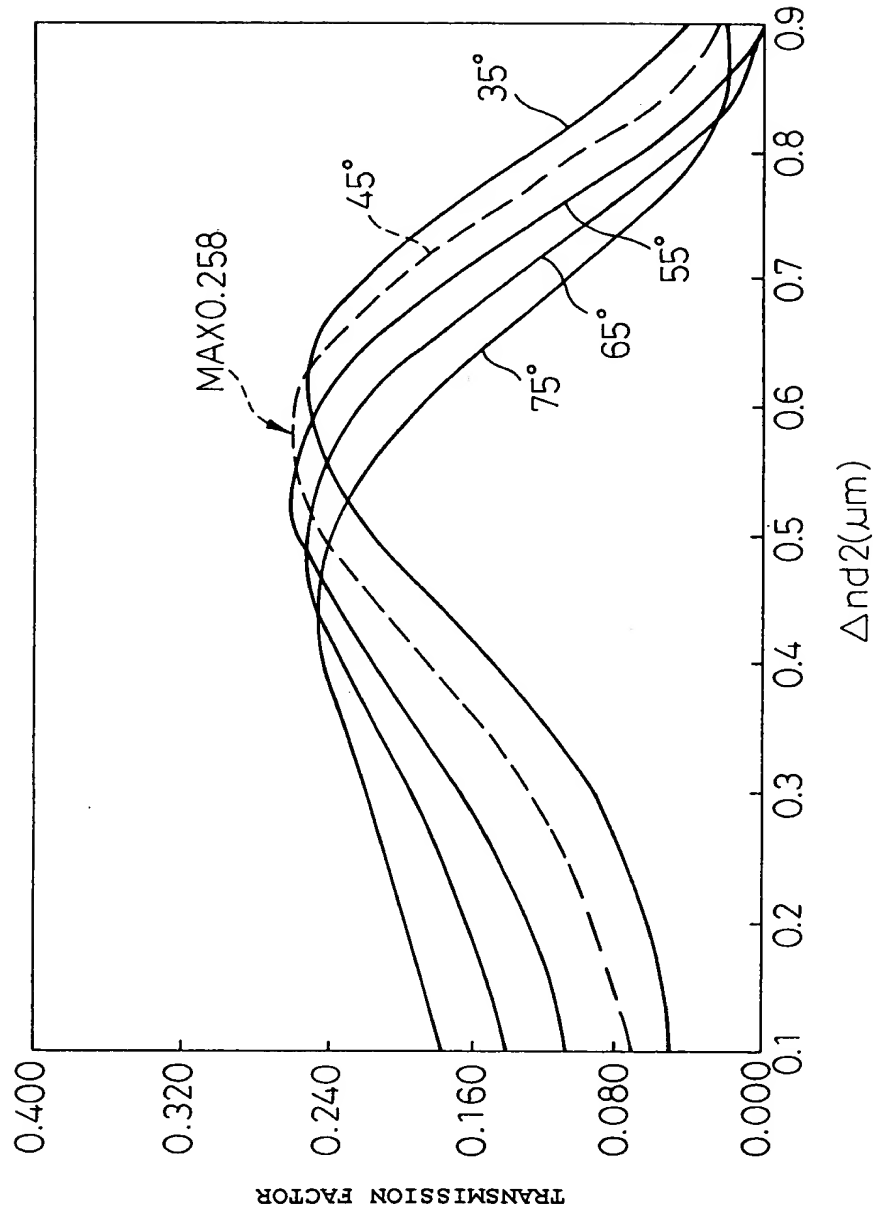


Fig.6

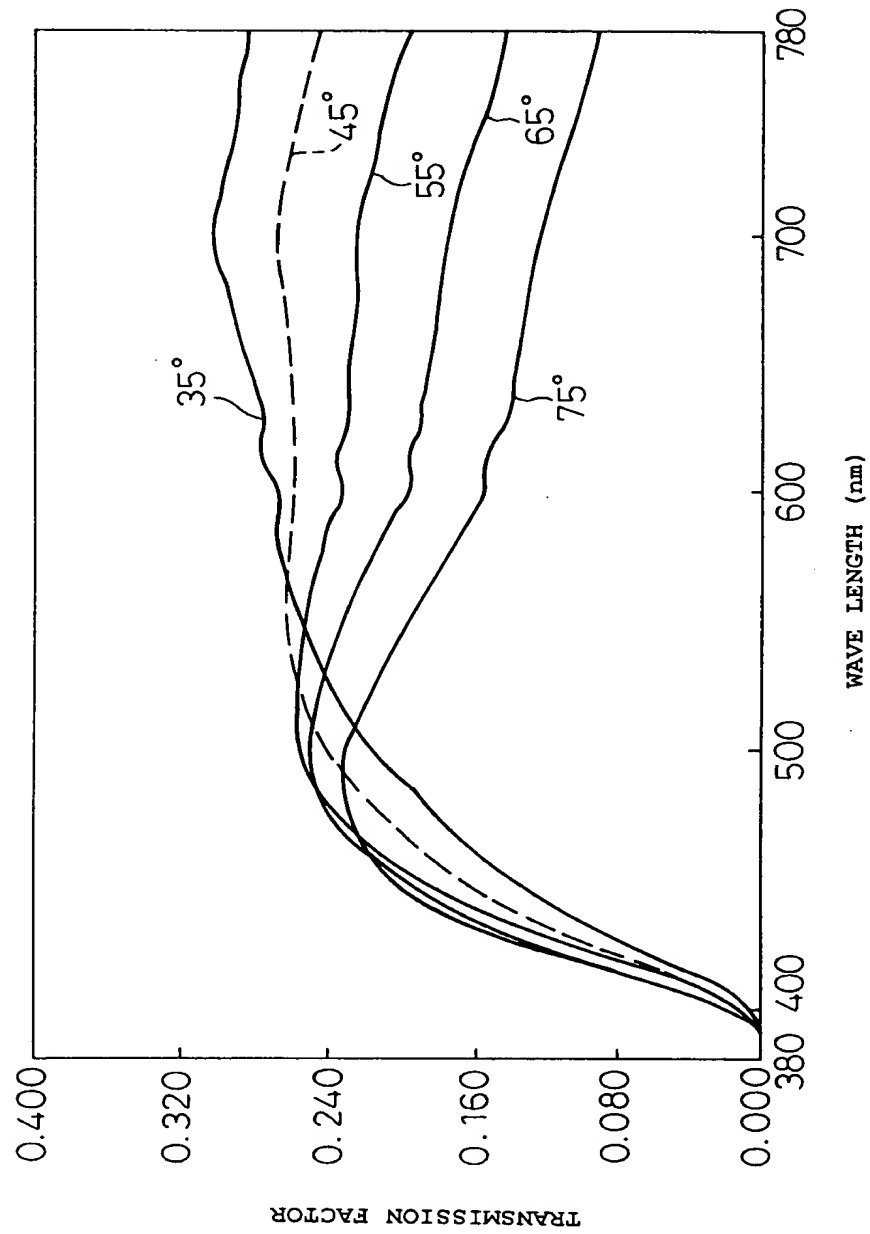


Fig.7

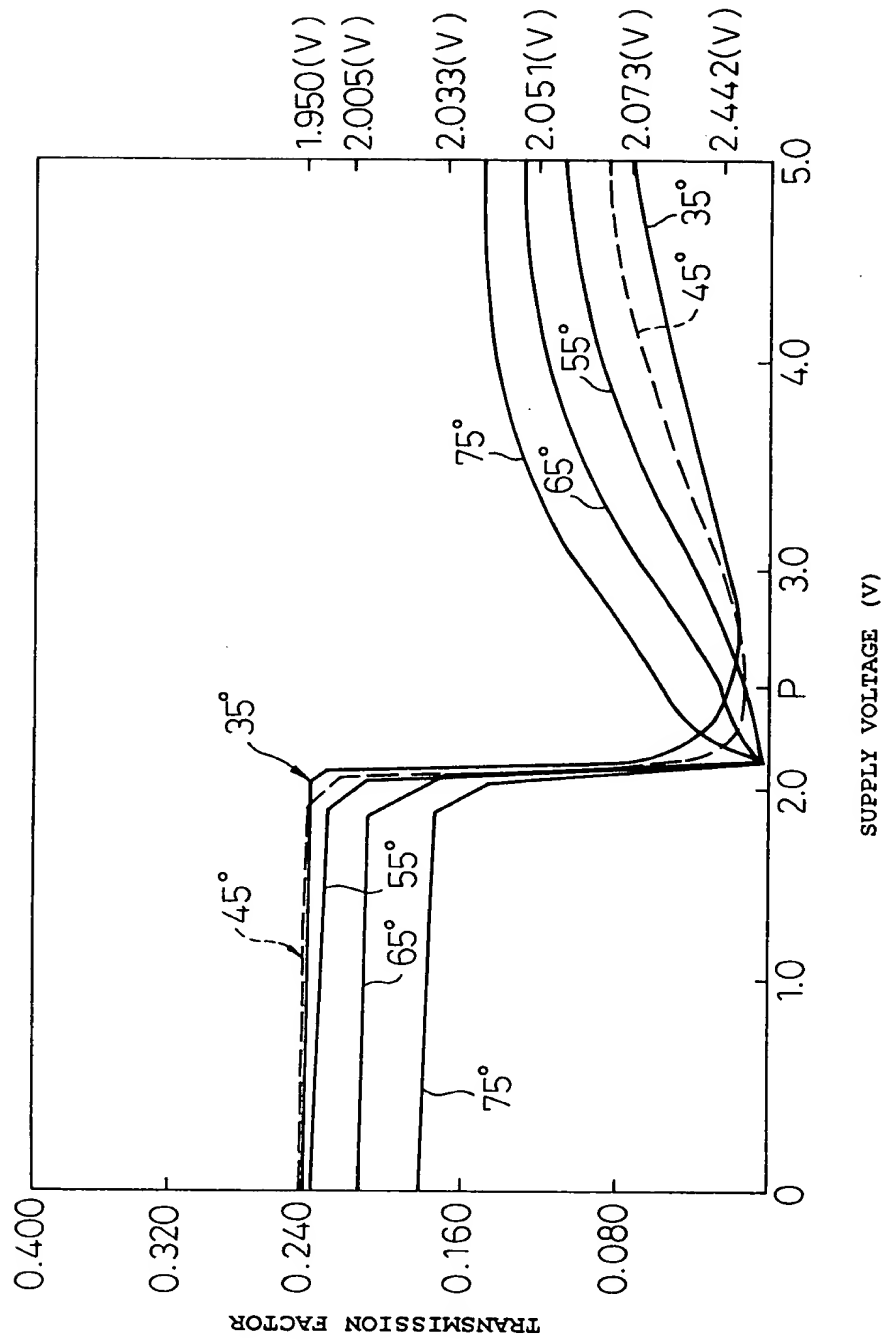


Fig.8

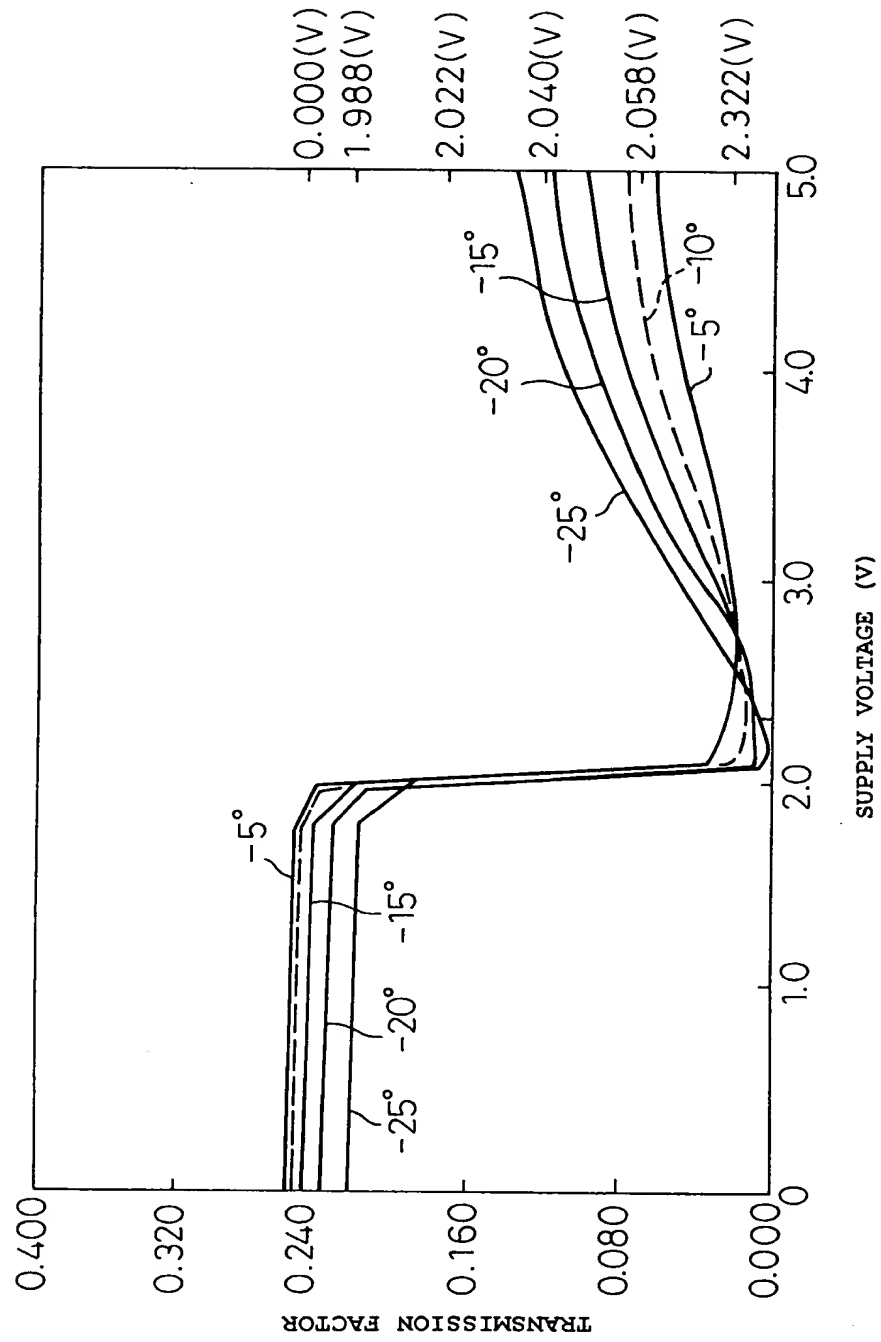


Fig.9

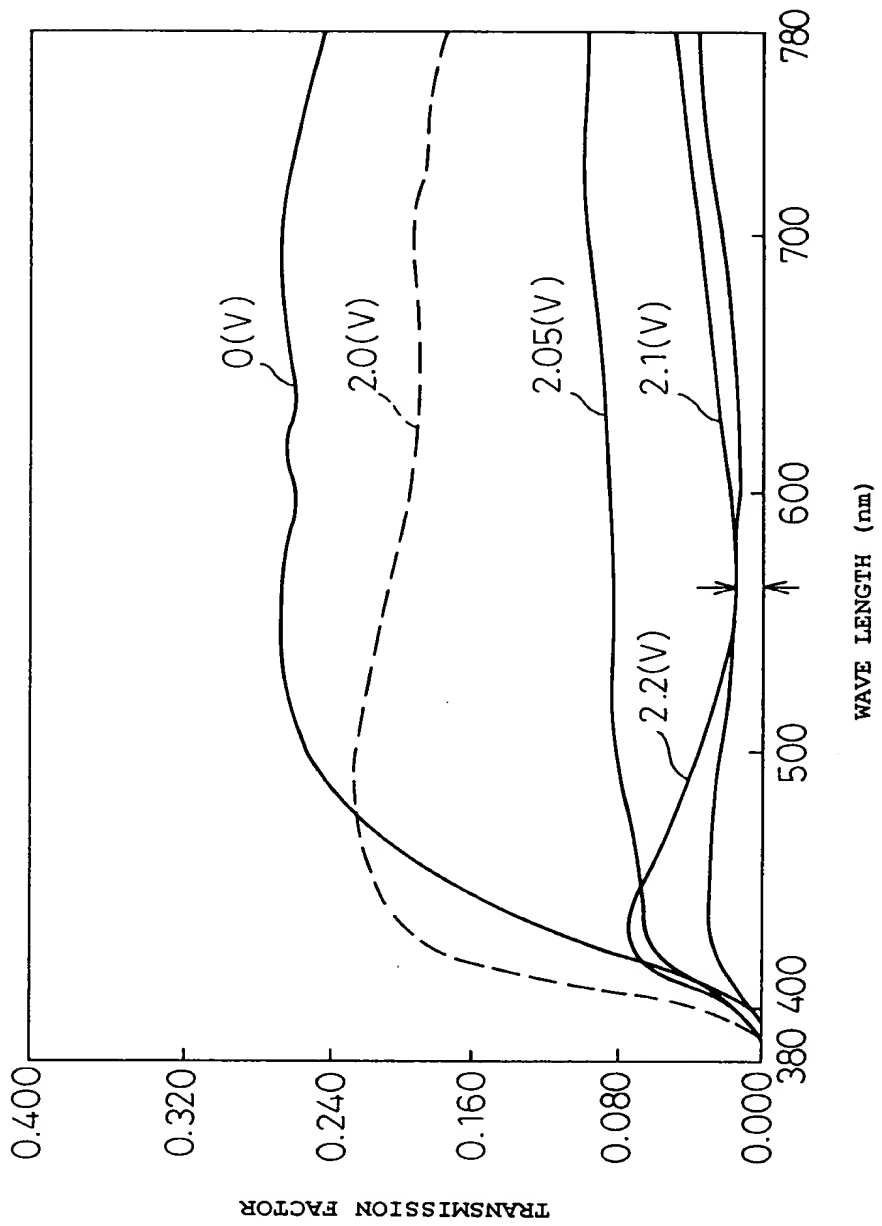
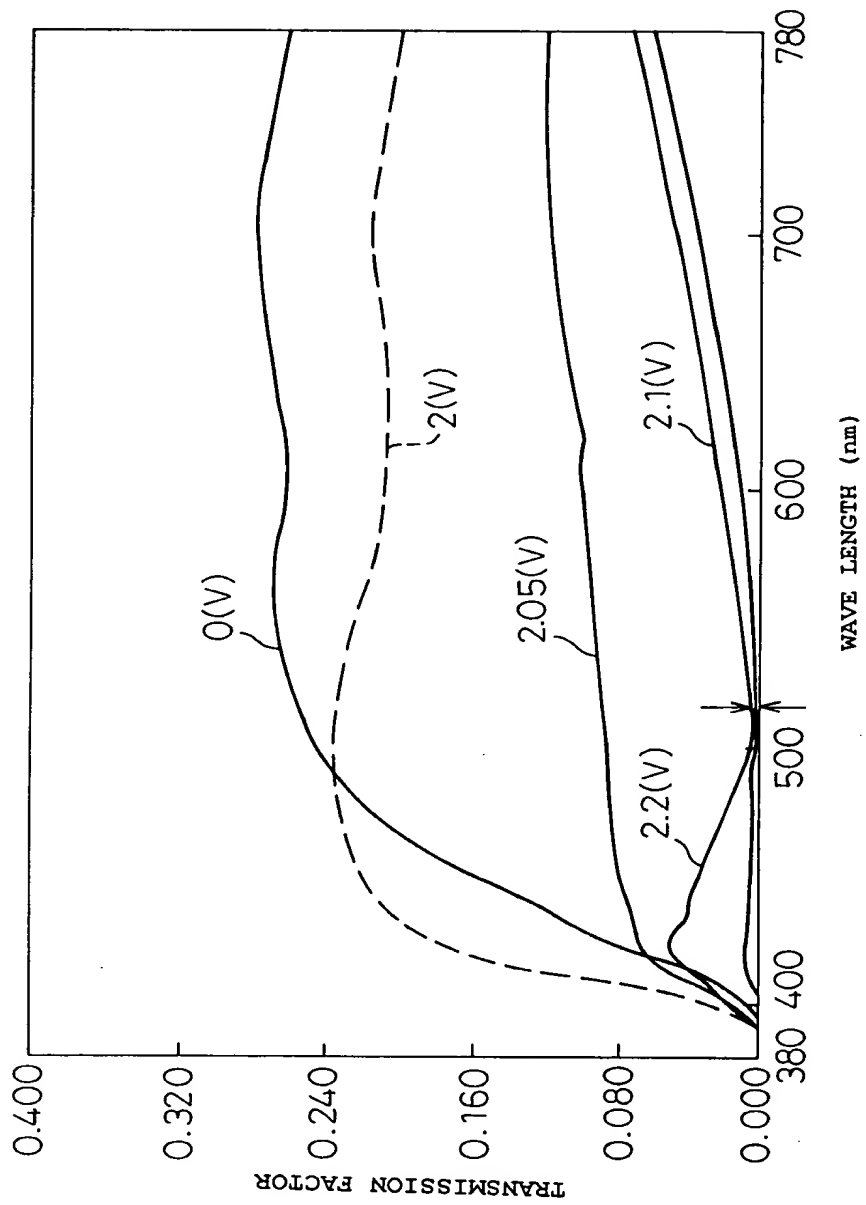


Fig.10



09530008-042400

Fig.11

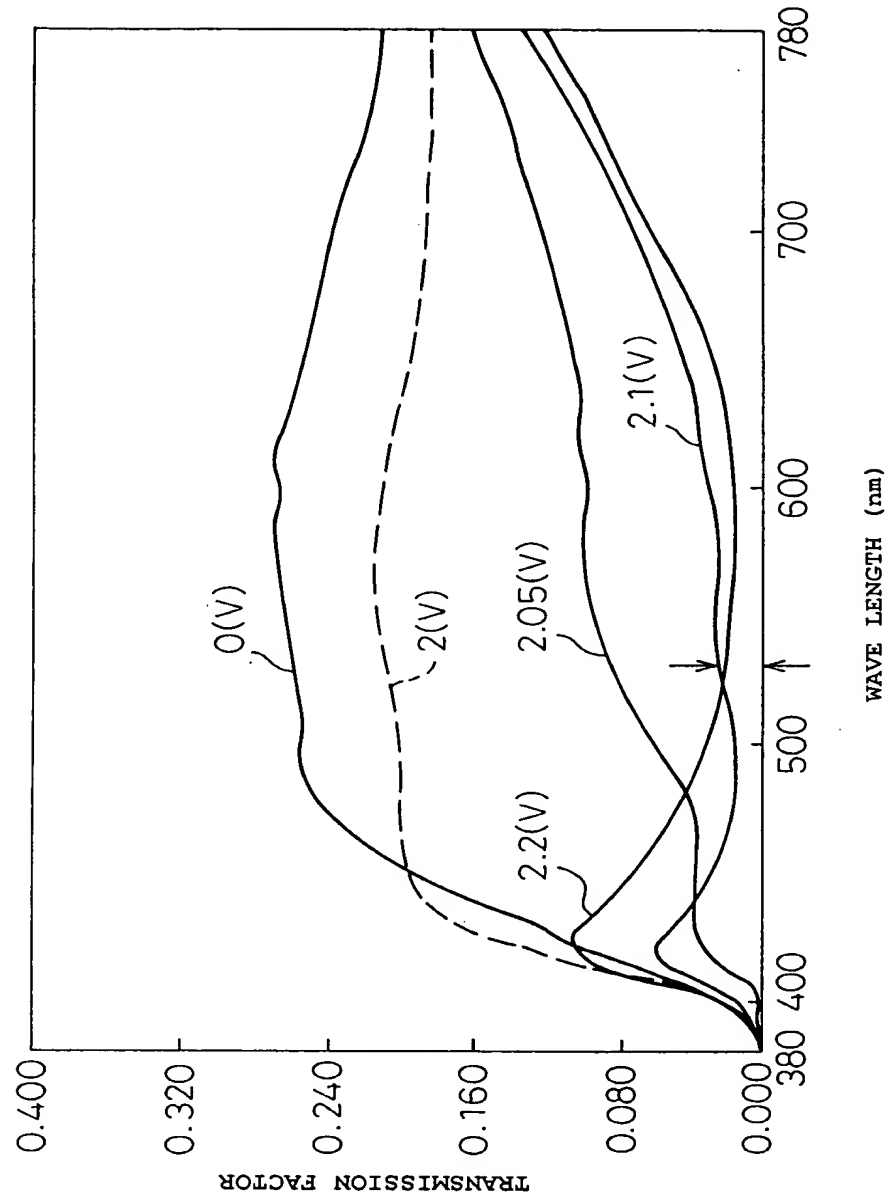


Fig.12

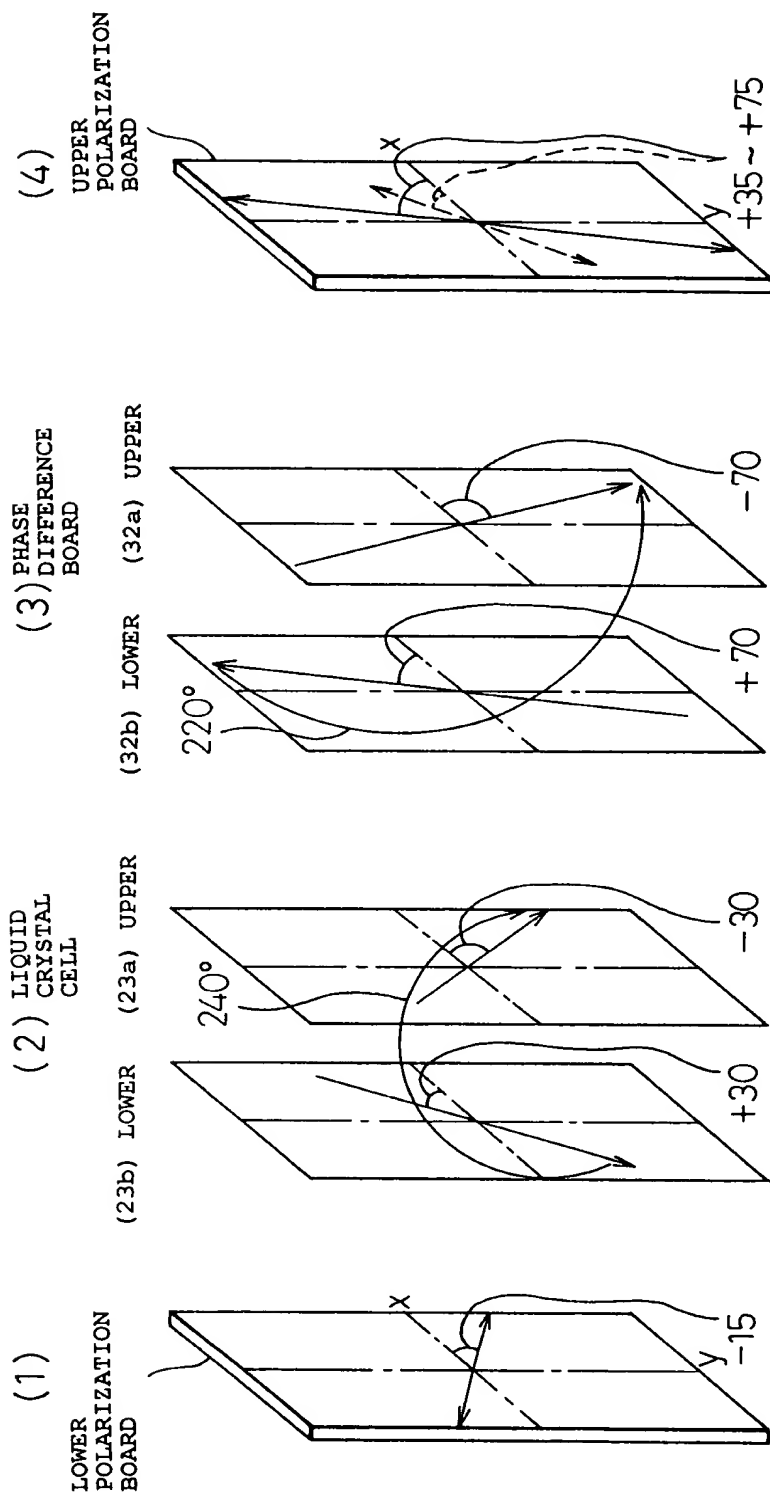


Fig.13

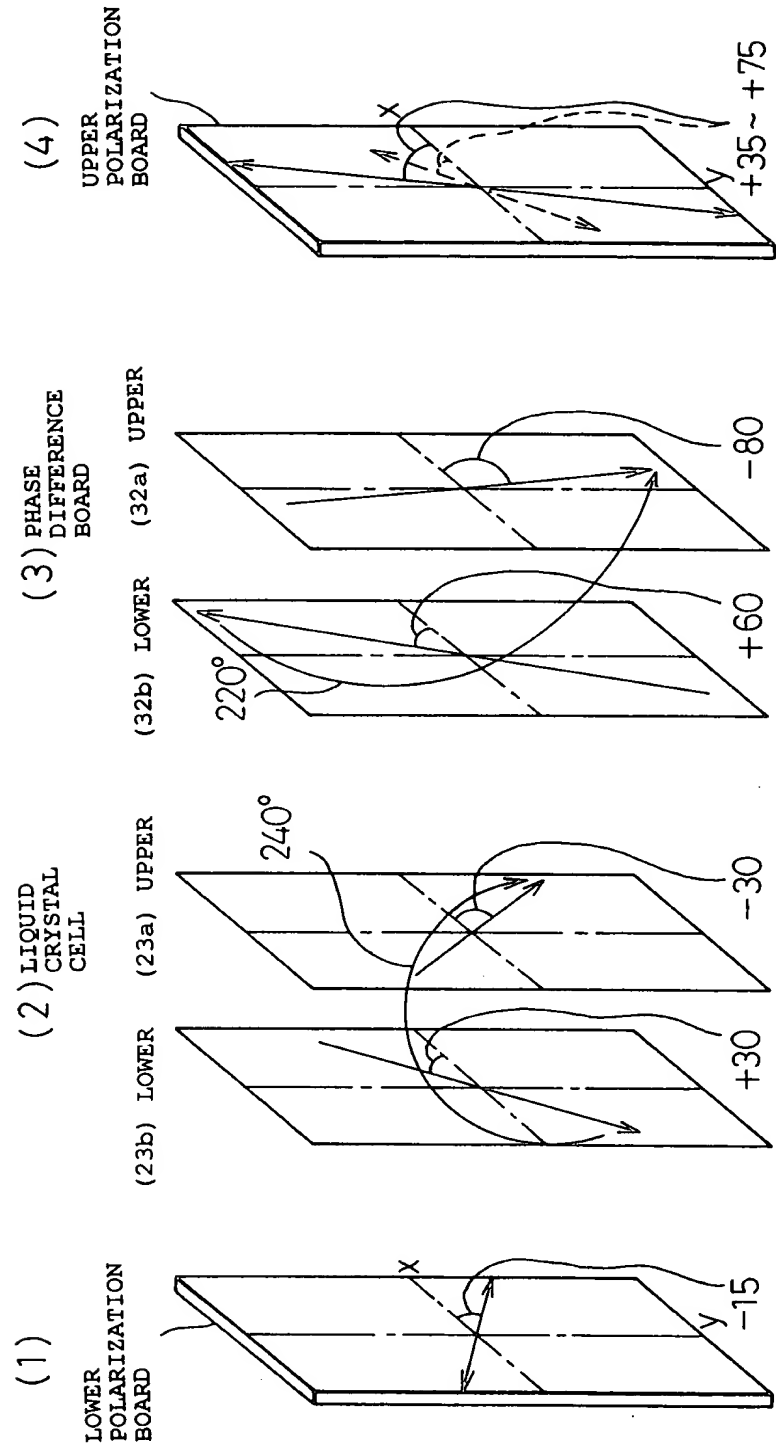


Fig.14

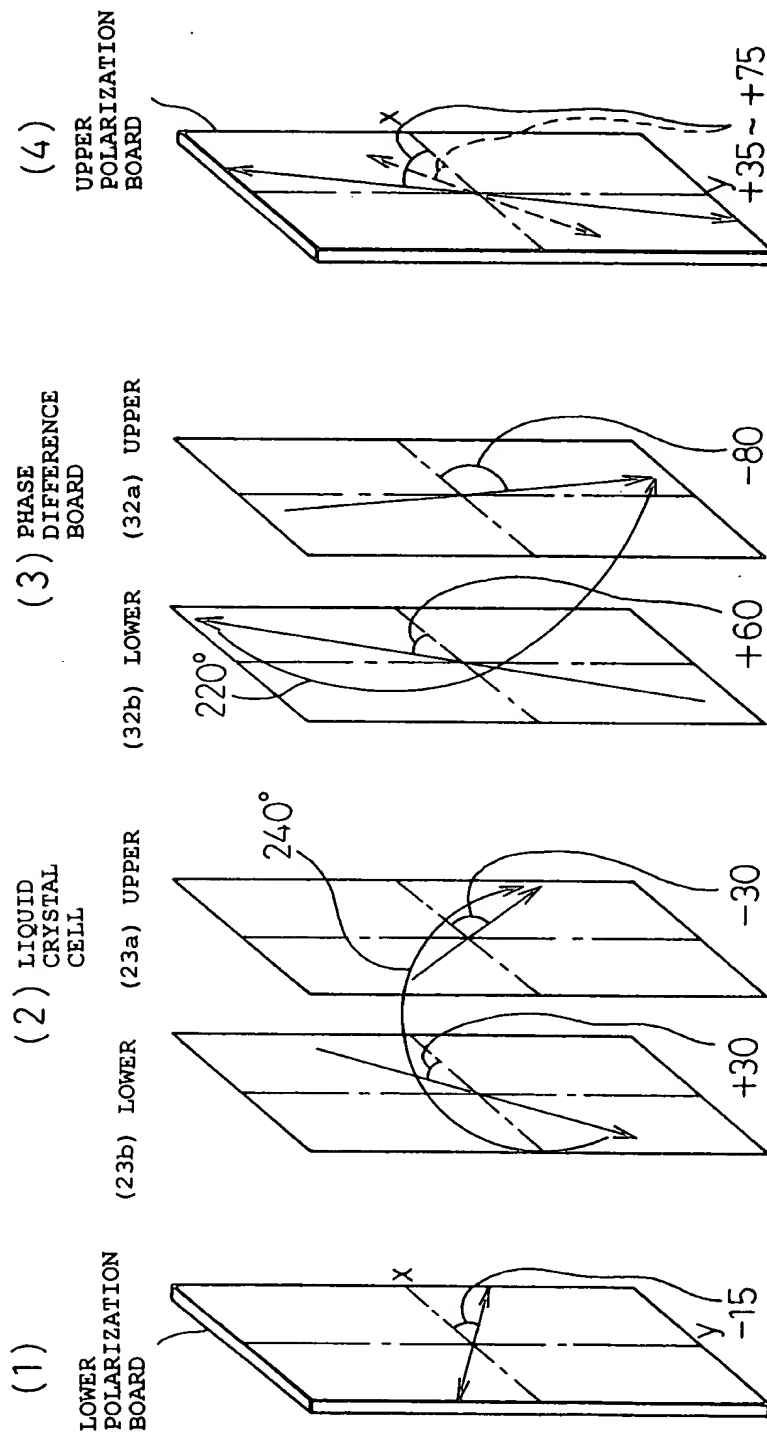


Fig.15

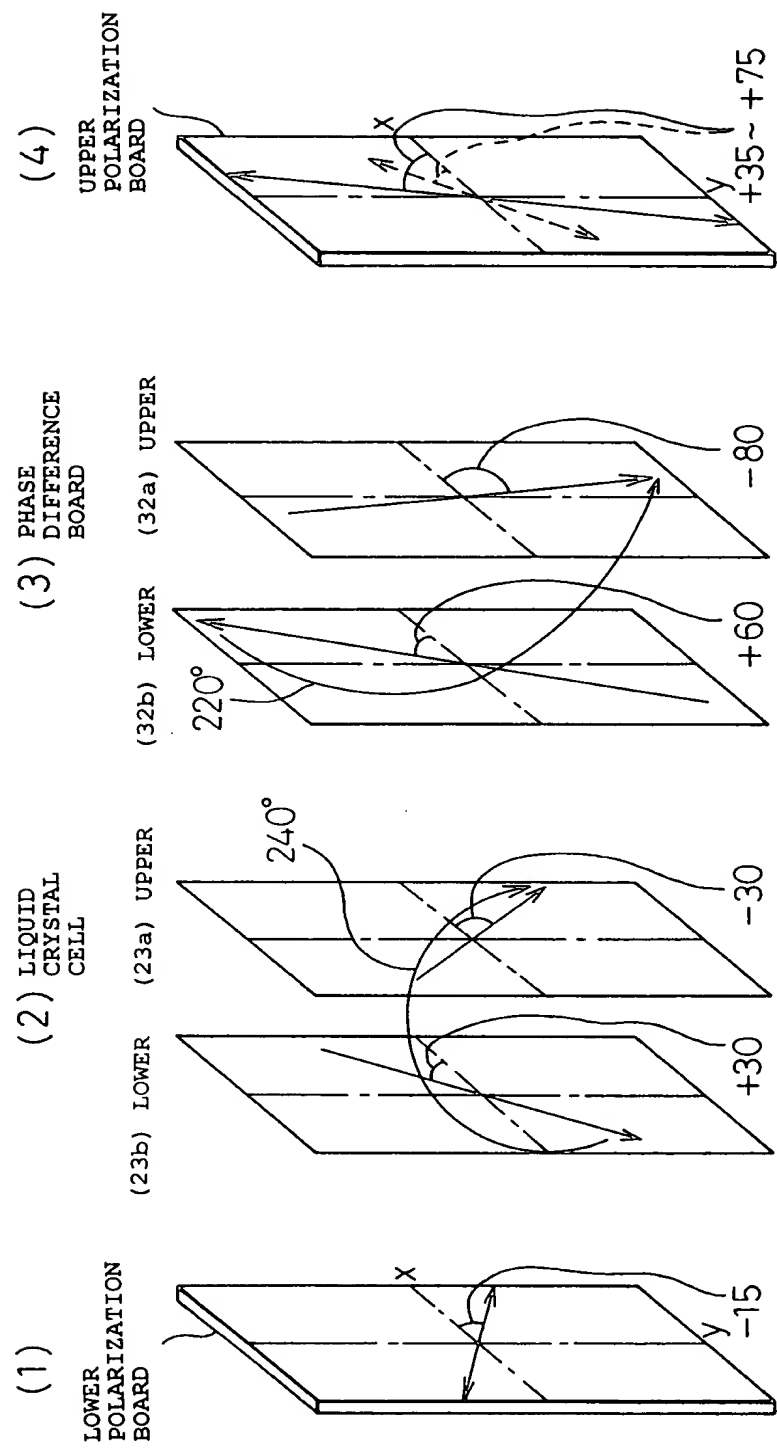


Fig.16

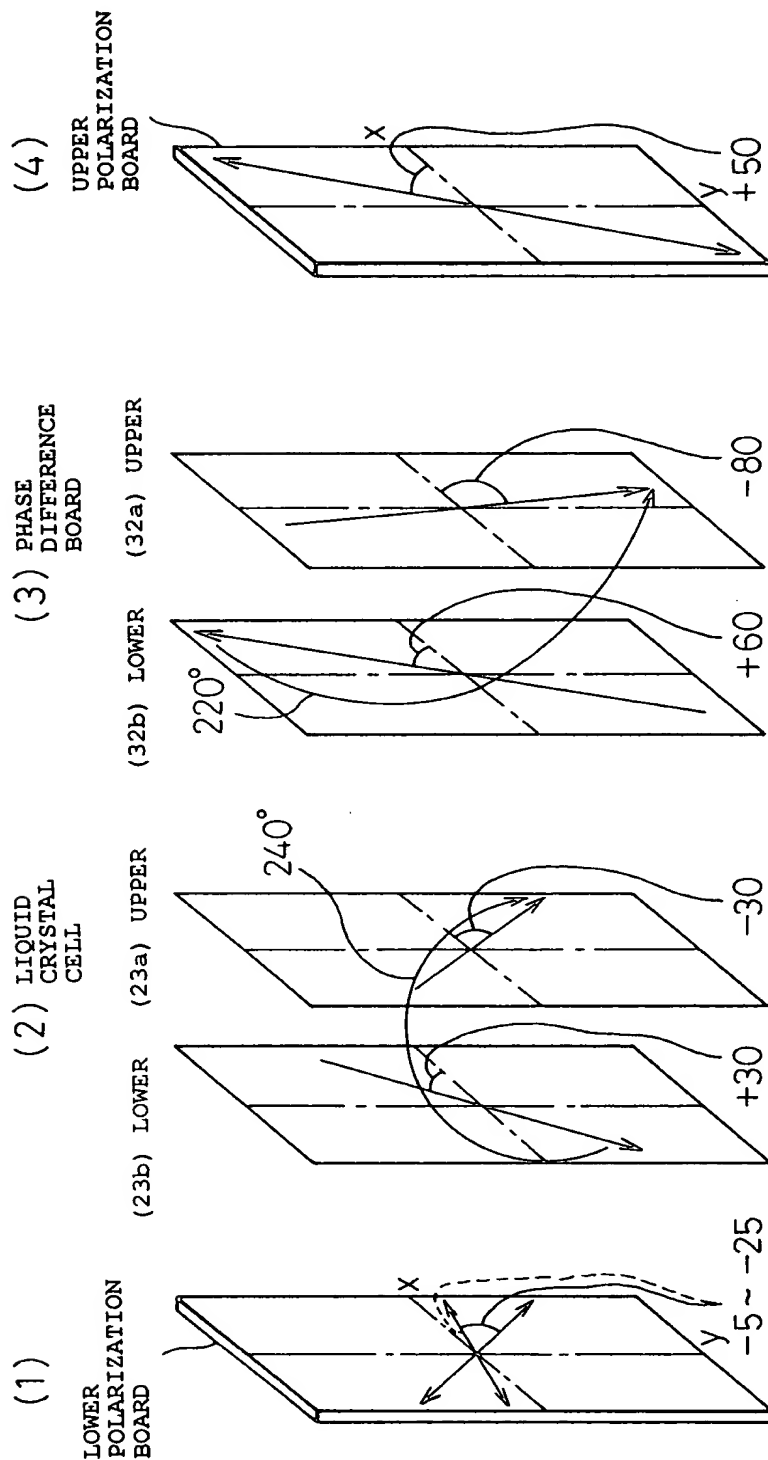


Fig.17

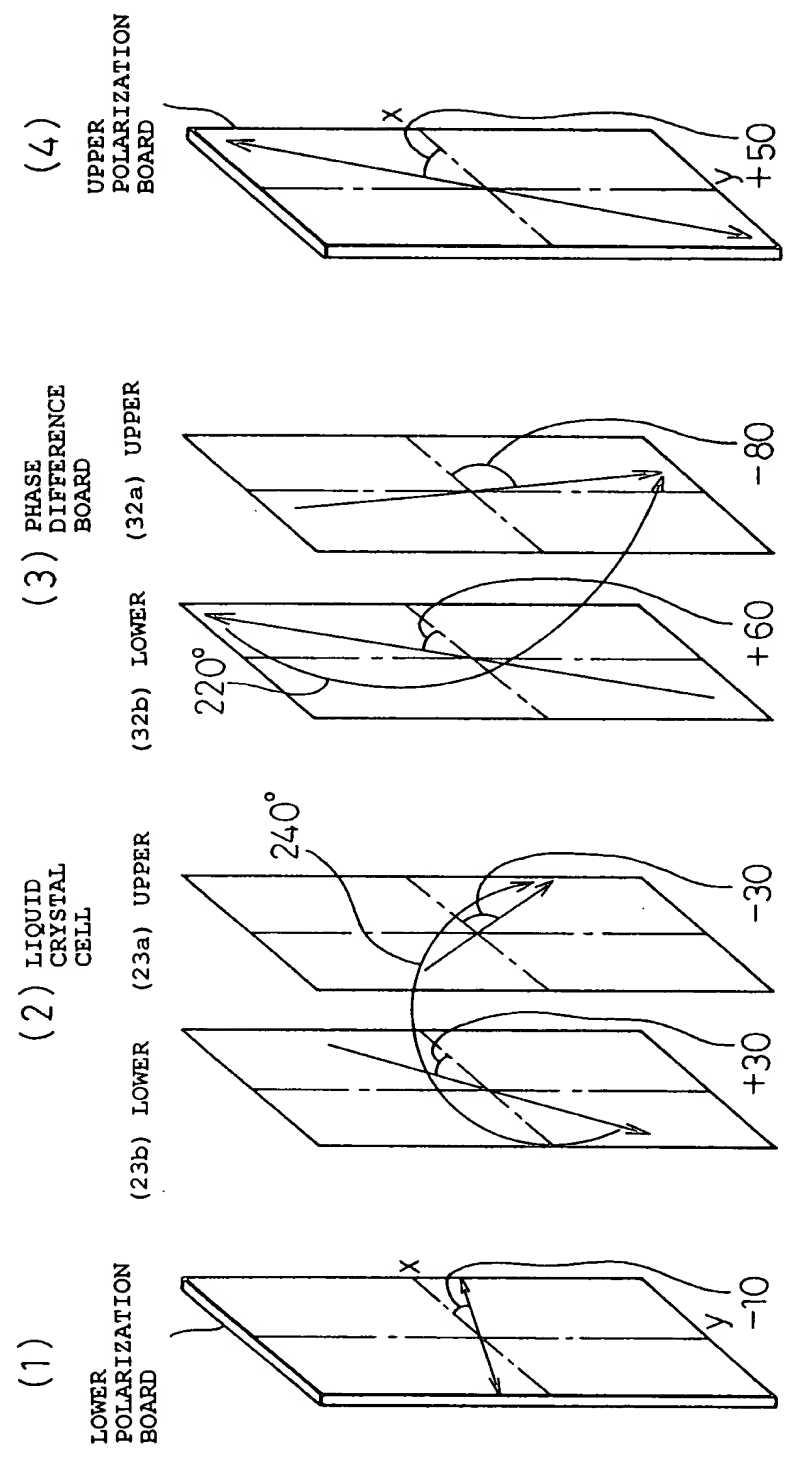


Fig.18

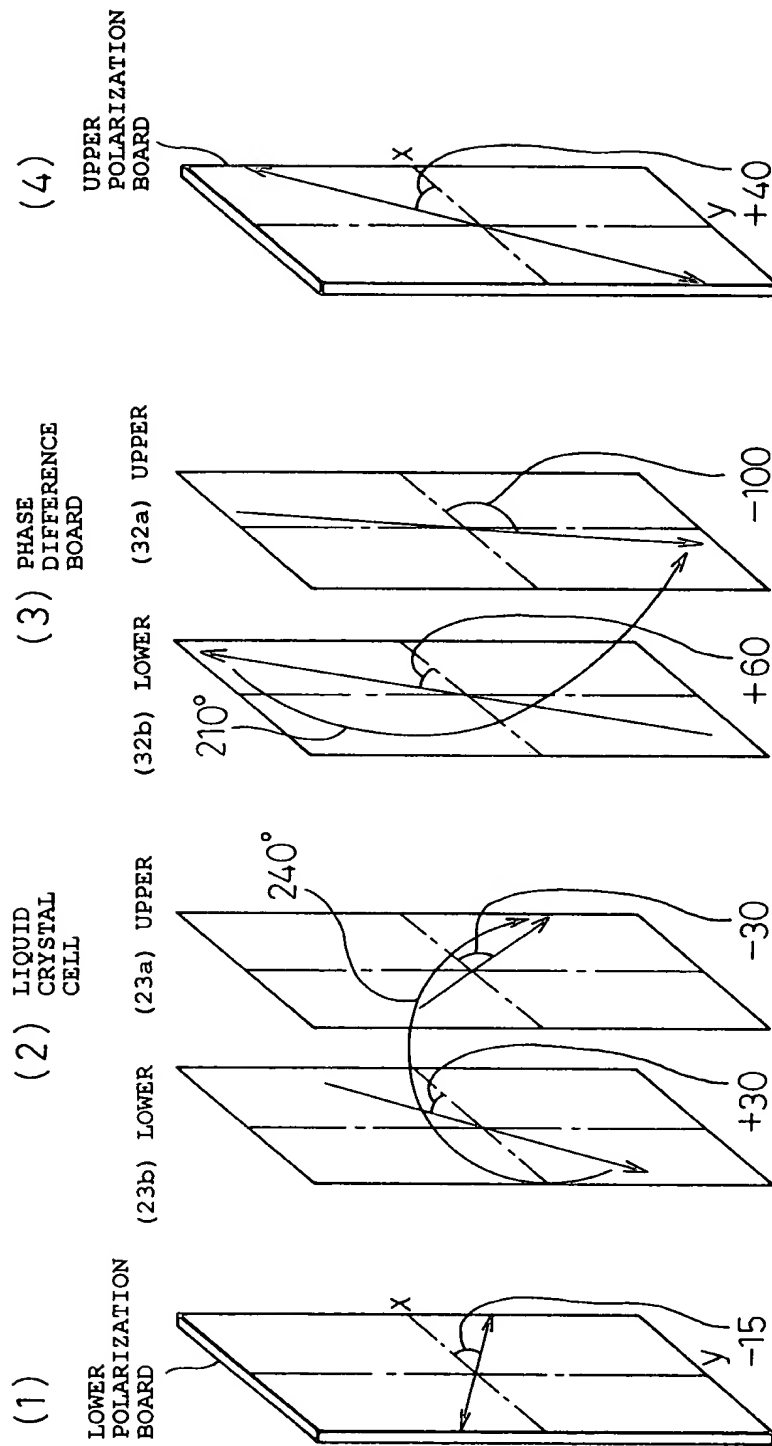


Fig.19

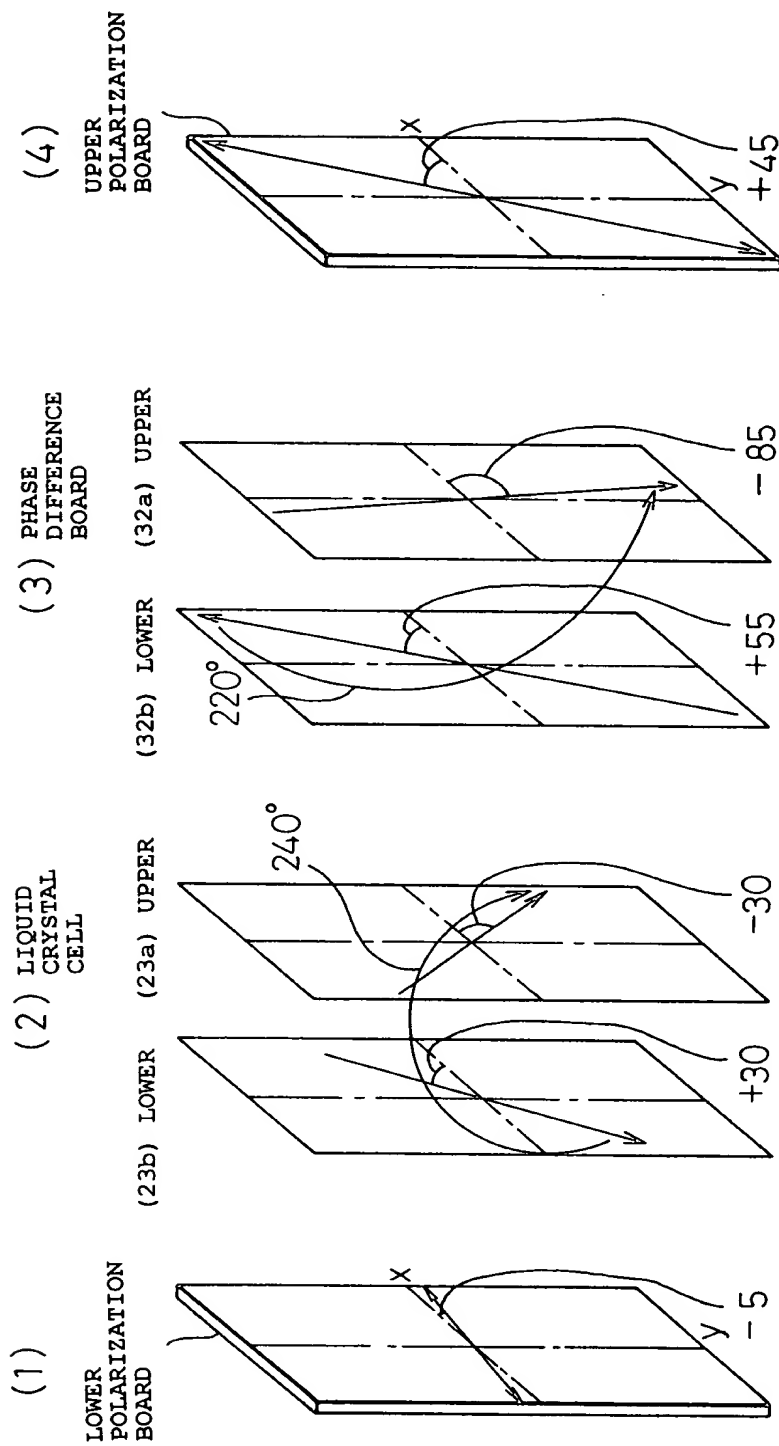




Fig. 21

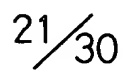
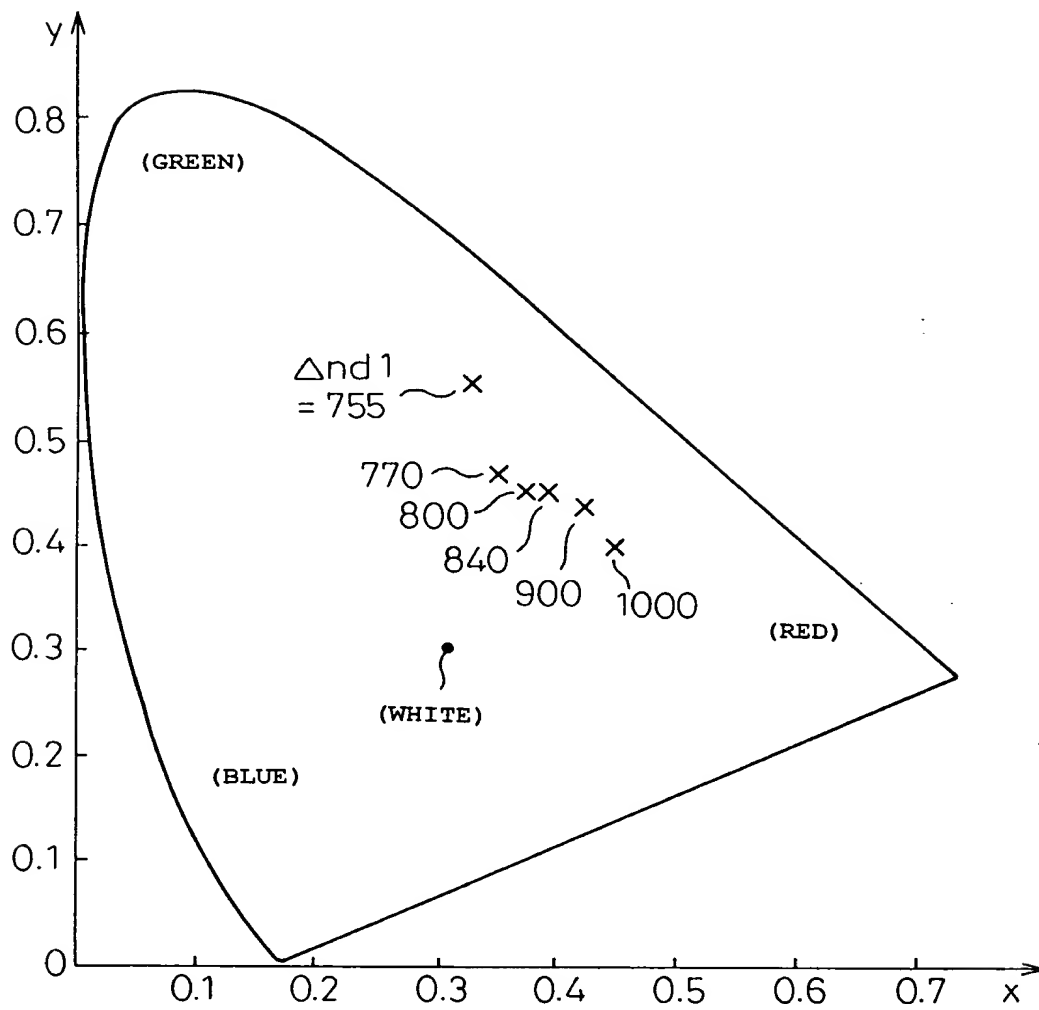


Fig.22

	TWISTED 220° PHASE DIFFERENCE	TWISTED 200° PHASE DIFFERENCE	PHASE DIFFERENCE BOARD	REMARK
WHITE-Y (x, y)	0.259 NORMAL (0.338, 0.377)	0.260 NORMAL (0.346, 0.387)	0.260 LIGHT GREEN (0.33, 0.366)	0 (v)
HALF TONE (x, y)	GRAY (0.329, 0.351)	GRAY (0.333, 0.351)	BROWN (0.384, 0.417)	2.05 (v)
BLACK-Y (x, y)	0.0187 BLUE-BLACK (0.22, 0.194)	0.007 BLACK (0.323, 0.165)	0.021 BLUE-BLACK (0.245, 0.194)	2.15 (v)
CONTRAST	13	35	11	1.95/2.15

Fig.23



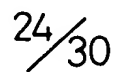
[illegible]

Fig.25A

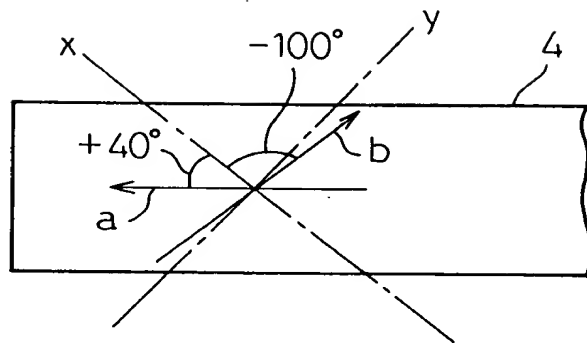


Fig.25B

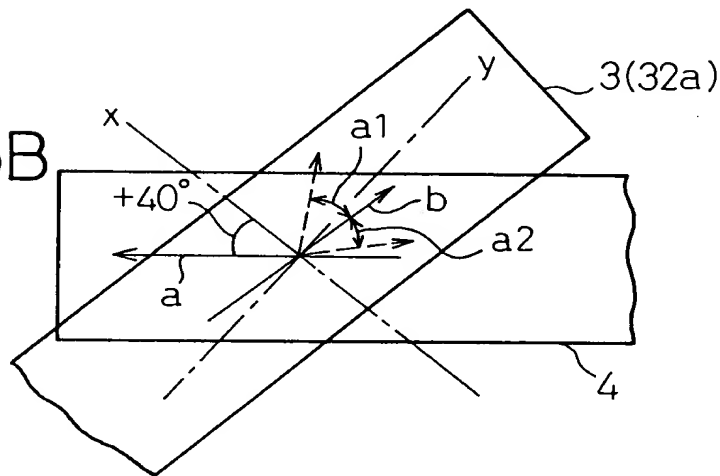


Fig.25C

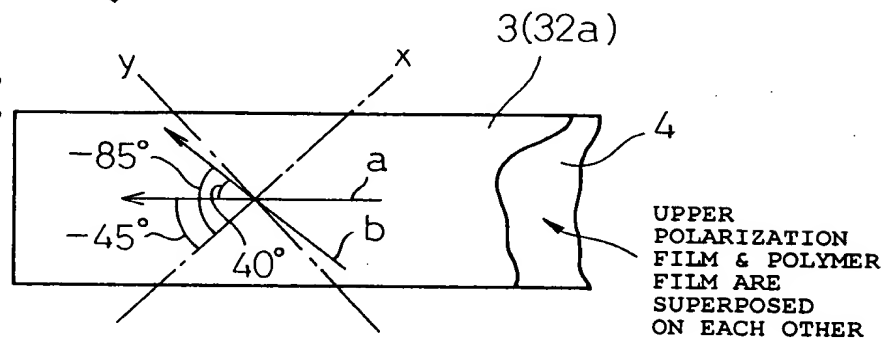


Fig.25D

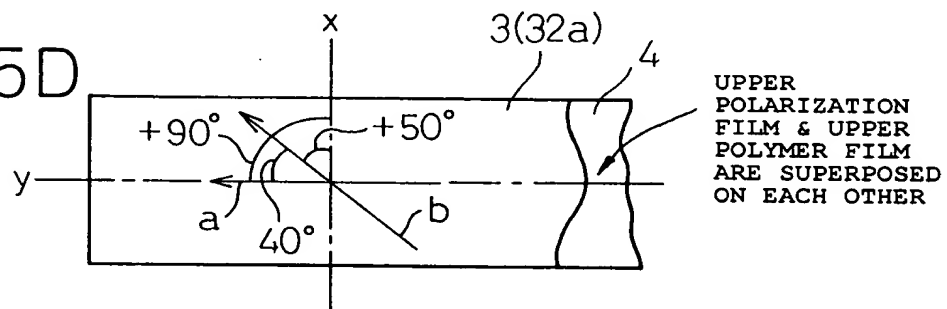
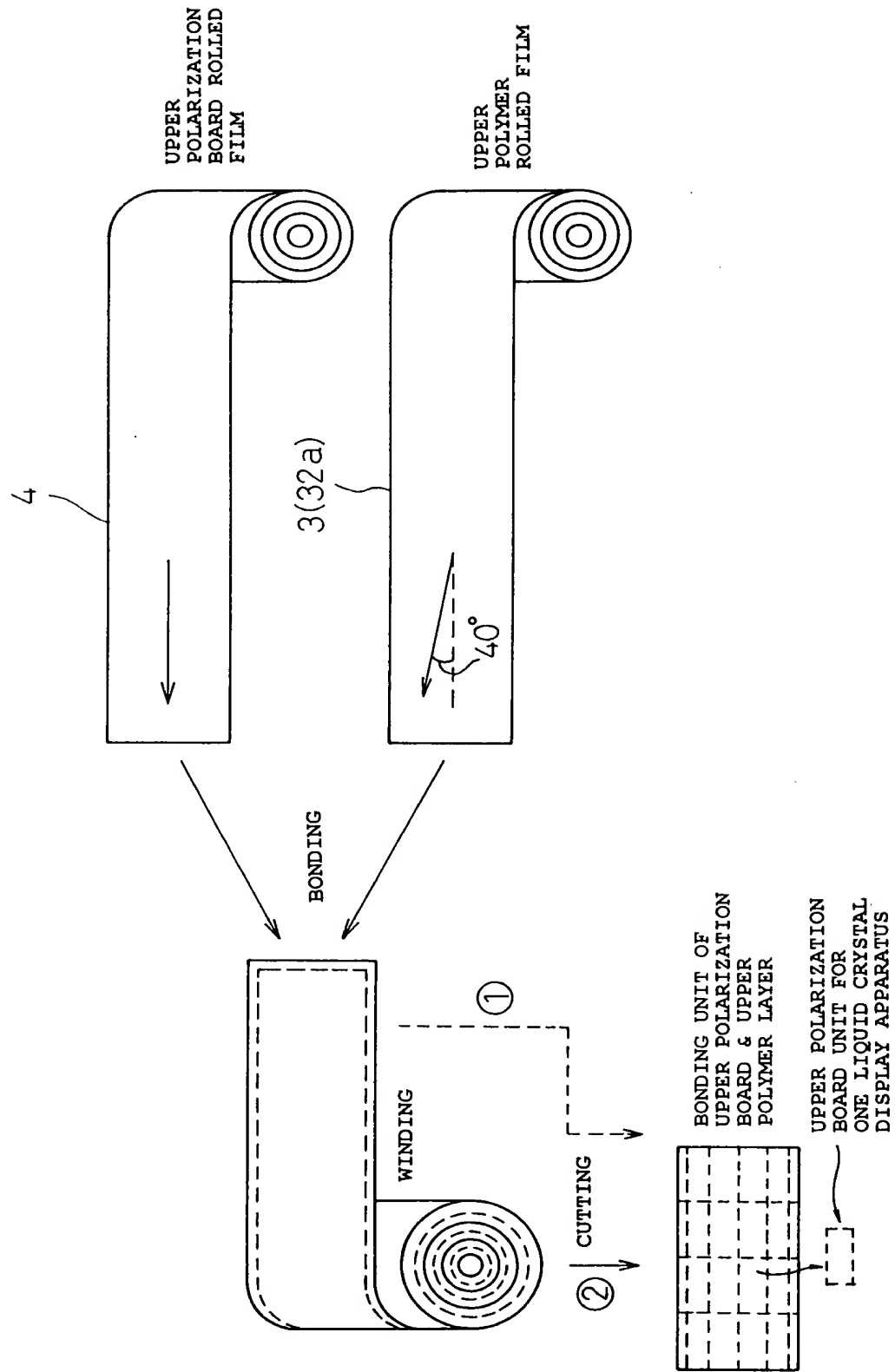


Fig. 26

UPPER  
POLYMER  
ROLLED FILM

3(32a)

07

## BONDING

## WINDING

## CUTTING

BONDING UNIT OF  
UPPER POLARIZATION  
BOARD & UPPER  
POLYMER LAYER

UPPER POLARIZATION  
BOARD UNIT FOR  
ONE LIQUID CRYSTAL  
DISPLAY APPARATUS

Fig.27

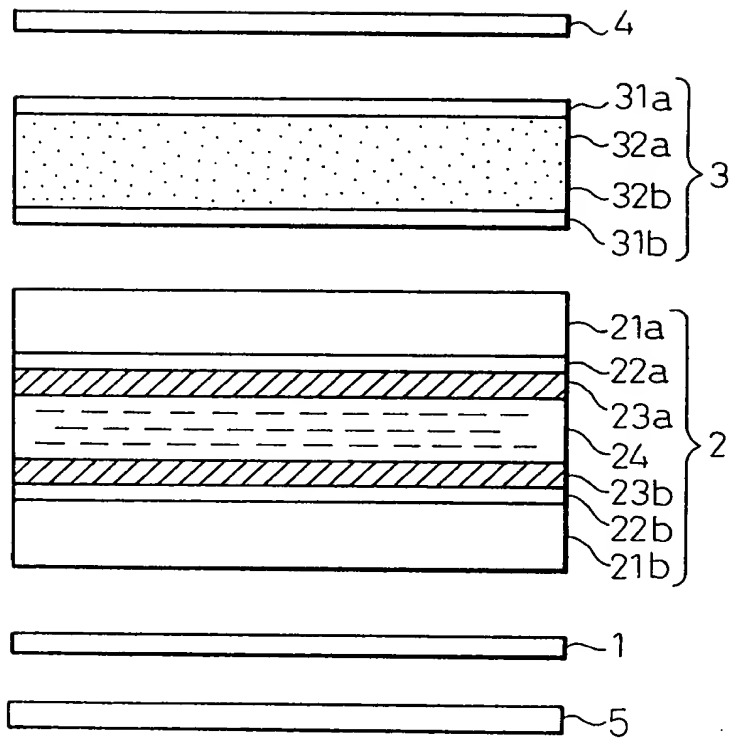


Fig.28

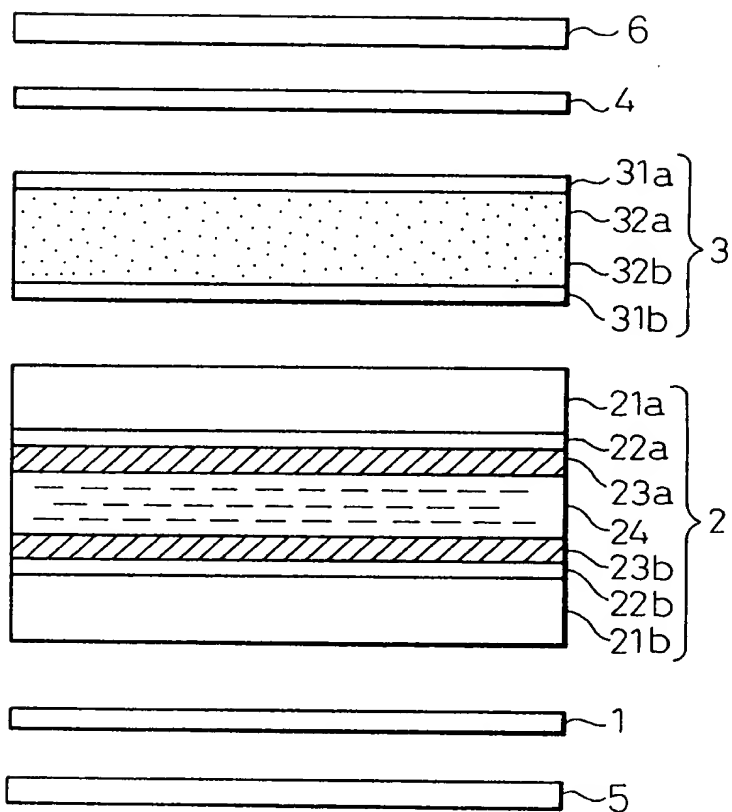


Fig. 29

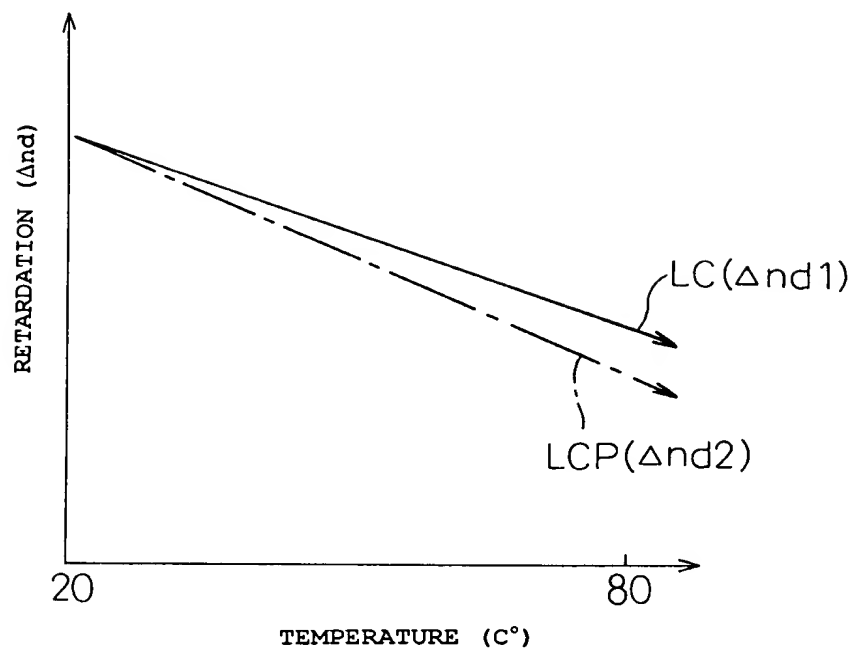
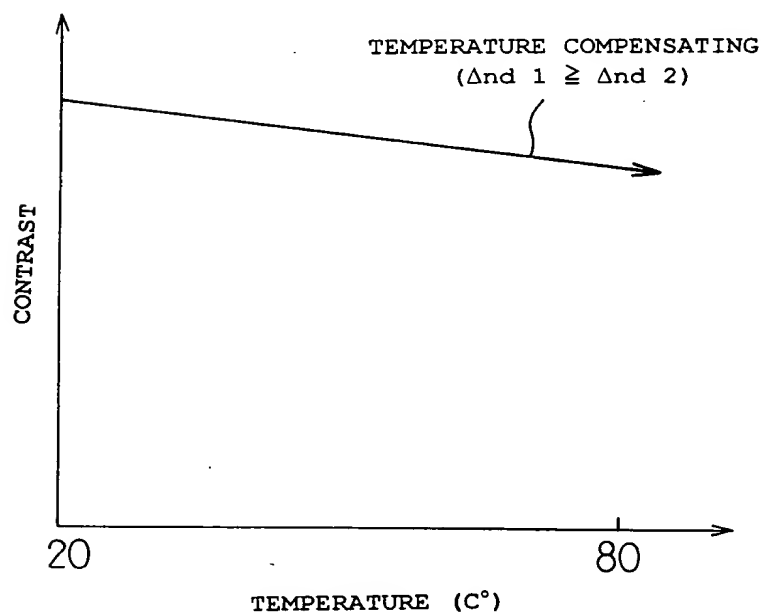


Fig. 30



## LIST OF REFERENCE CODES

- 1 ... FIRST POLARIZATION BOARD
- 2 ... LIQUID CRYSTAL ELEMENT
- 3 ... TWISTED PHASE DIFFERENCE BOARD
- 4 ... SECOND POLARIZATION BOARD
- 21b ... FIRST SUBSTRATE
- 21a ... SECOND SUBSTRATE
- 22b ... FIRST TRANSPARENT ELECTRODE
- 22a ... SECOND TRANSPARENT ELECTRODE
- 23b ... FIRST ALIGNMENT FILM (LOWER)
- 23a ... SECOND ALIGNMENT FILM (UPPER)
- 24 ... LIQUID CRYSTAL LAYER
- 31a ... HARD COAT LAYER
- 31b ... TRANSPARENT FILM SUBSTRATE
- 32a ... UPPER POLYMER
- 32b ... LOWER POLYMER